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MINERALS PROGRAM  
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DATE: August 4, 1992

AUG 04 1992

TO: D. Wayne Hedberg

DIVISION OF  
OIL GAS & MINING

COMPANY: Utah Division of Oil Gas and Mining

LOCATION: S.L.C. VT

FAX NUMBER: 801-359-3940

FROM: Rody Cox

COMPANY: Bureau of Land Management

LOCATION: Fillmore, VT

FAX NUMBER: (801) 743-5112 TELEPHONE NUMBER: FTS 322-6800  
(801) 743-6811

TOTAL NUMBER OF PAGES 3 (INCLUDING COVER SHEET).

MESSAGE: Our latest correspondence to  
Jumbo Concerning New Heap Leach,  
as you requested.

**YELLOW**

Mr. Edward B. King  
President, Jumbo Mining Company  
6305 Fern Spring Cove  
Austin, Texas 78730

**RECEIVED**

3809  
UT-056-07P-A  
UT054

AUG 11 1992

DIVISION OF  
OIL GAS & MINING

Dear Mr. King:

RE: Amendment To Mine Plan of Operations, UT-056-07P, New  
Heap Leach Pad H-10, Drum Mine, Millard County, Utah

Thank you for your latest submittal received by this office on February 7, 1992 containing supplementary information for your plan amendment of March 29, 1991. We will send you comments regarding this submittal in the near future.

Contained with BLM's letter of deficiency, dated December 24, 1991, was a copy of the Bureau of Land Management Draft Cyanide Management Plan. Please be aware of some revisions to the criteria listed in that deficiency letter.

1. Item 2.A..  
With respect to the proposed primary liner, the minimum thickness should be 60-mil (instead of 30-mil) for the geomembrane top liner. This stipulation is consistent with requirements for compliance of cyanide operations as established by state agencies.
2. Item 5.A..  
The 0.22 mg/l WAD cyanide level listed in the draft BLM Cyanide Management Plan has since been revised to 0.20 mg/l.
3. Items 5.B., 5.C..  
Since your proposed operation will not produce tailings, these requirements do not apply.
4. Item 6..  
An approved leak detection system under the pad in conjunction with monitoring of the proposed perched water table drain trench may be an acceptable alternative to the ground water monitoring requirements outlined in Item 6..

You have indicated a quality assurance/quality control report is being compiled by your consulting engineering firm and will be submitted to our agency when completed. This report should include a description of the construction practices that will be followed to ensure the liner will be installed so it will perform to the specifications identified. If applicable, additional information should contain settlement stand design for the pad to measure deflection in subgrade fill areas.

We have received copies of correspondence from the State of Utah, Department of Environmental Quality, Division of Water Quality, requiring your process ponds to be replaced. The Bureau of Land Management must also approve your new process ponds. We are interested in the design specifications, construction practices and the storage of solutions during the construction phase.

Thank you for your patience. Should you have any questions regarding this letter, please contact Rody Cox at (801) 743-7405.

Sincerely,

**SIGNED**

Rex Rowley  
Area Manager

cc: Dave Hartshorn, P.O. Box 999, Delta, UT 84624  
Michael Jackson, RDO  
D. Wayne Hedberg, UDOGM  
Mark Novak, DWQ

RCox:mfr